



Docket No.: 50371USA3D

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Patent 7-30-99

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Andrew J. Ouderkirk et al.

Serial No.: 09/013,819  
Filed: January 27, 1998  
For: OPTICAL POLARIZER

Group Art Unit: 2872

Examiner: Shafer

TC 2800 MAIL ROOM

JUL 29 1999

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AMENDMENT AND RESPONSE

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

In response is the Office Action mailed May 19, 1999 please cancel claims 10-12 and 15-43 and amend the claims as follows:

1. (Amended) An optical polarizer, comprising:
- a polymeric reflective polarizer including a first and second polymeric material, at least one of the first and second polymeric material being birefringent such that a refractive index difference between the first and second polymeric material for light having a first polarization state is large enough to substantially reflect the light having the first polarization state and a refractive index difference between the first and second polymeric material for light having a second polarization state is small enough to substantially transmit the light having the second polarization state; and
- an absorbing polarizer disposed in close proximity to the polymeric reflective polarizer and aligned to substantially absorb light of the first polarization state and to [reflect] substantially transmit light of the second polarization state, the absorbing polarizer directly receiving light which is not reflected by the polymeric reflective polarizer.

Certificate of Mailing

Pursuant to 37 CFR 1.8 I certify that this correspondence is being deposited on the date indicated below with the United States Postal Service as First Class Mail addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

Date: 7/22/99

Signature

*Chapman*

A<sup>2</sup>  
E 3. (Amended) An optical polarizer as recited in claim [3] 2, comprising a multilayer stack of alternating layers of the first and second polymeric material forming the reflective polarizer and a polymeric layer of material mixed with a dichroic dye forming the absorbing polarizer.

A<sup>3</sup> 5. (Amended) An optical polarizer as recited in claim [4] 1, wherein the absorbing polarizer comprises a polymeric layer of material mixed with a dichroic dye.

Sub  
B<sup>1</sup>  
A<sup>4</sup> 13. (Amended) An [The] optical polarizer [of claim 1,] comprising:  
a reflective polarizer including at least one material having  
anisotropic refractive indices disposed such that light having a first polarization  
state is substantially reflected and light having a second polarization state is  
substantially transmitted; and  
[wherein the] a dichroic polarizer [is positioned] bonded to at least  
one side of the reflective polarizer to provide antireflection on the at least one side  
of the reflective polarizer.

E 11<sup>0</sup> 14. (Amended) The optical polarizer of claim <sup>13 10</sup> wherein the [dichroic] absorbing polarizer is bonded to the reflective polarizer.

Please add the following new claims:

AS 44. (New) An optical polarizer as recited in claim 13, wherein iridescence of light reflected by the at least one side of the reflective polarizer is reduced by attenuation of the reflected light by the dichroic polarizer.

45. (New) An optical polarizer as recited in claim 13, wherein the reflective polarizer comprises a multilayer stack of alternating layers of a first polymeric material having anisotropic refractive indices and a second polymeric material.